#1

A $(-3,-5)$ B $(1,-4)$ C $(2,-8)$

$AB = \sqrt{(-3-1)^2 + (-5+4)^2}$

$AB = \sqrt{(-4)^2 + (-1)^2}$

$AB = \sqrt{17}$

$BC = \sqrt{(1-2)^2 + (-4+8)^2}$

$BC = \sqrt{(-1)^2 + (4)^2}$

$BC = \sqrt{17}$

$AC = \sqrt{(-3-2)^2 + (-5+8)^2}$

$AC = \sqrt{(-5)^2 + (3)^2}$

$AC = \sqrt{34}$

Equilateral, (isosceles,) scalene

Use Pythagorean Thm to test the angles.

$AB^2 + BC^2 \stackrel{?}{=} AC^2$

$(\sqrt{17})^2 + (\sqrt{17})^2 \stackrel{?}{=} (\sqrt{34})^2$

$17 + 17 \stackrel{?}{=} 34$

$34 = 34$ ✓

(Right,) acute, obtuse